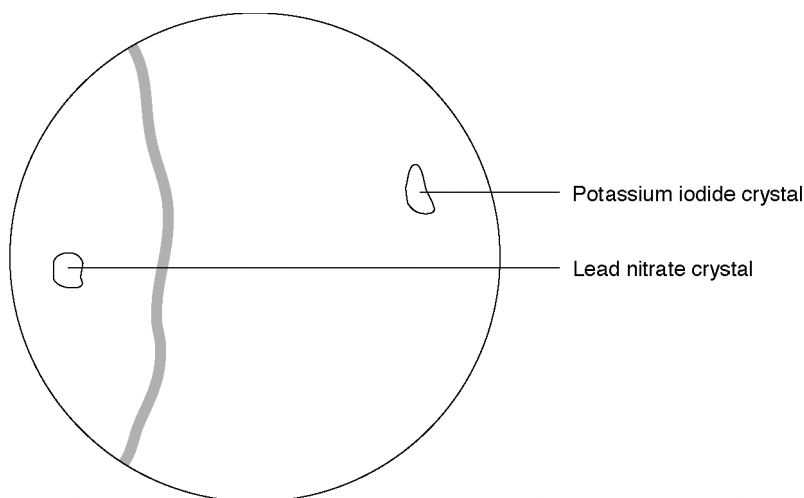


IGCSE chemistry

diffusion in liquids

Introduction

Diffusion occurs in liquids but more slowly than in gases. The particles are not as free to move about. This experiment illustrates diffusion in a liquid.



What to do

1. Fill a petri dish with deionised water.
2. Use forceps to drop crystals of lead nitrate and potassium iodide on opposite sides of the dish.
3. The solid crystals form solutions that react. Observe what happens.
4. Watch diffusion occurring, as a yellow solid slowly forms between the two crystals.

Safety

Wear eye protection.

Questions

1. Write a word equation for the reaction.
2. Write a formula equation for the reaction.
3. How can this diffusion process be explained?
4. With crystals of lead nitrate and potassium iodide in water, the yellow solid forms closer to the lead nitrate crystal. Which reactant diffuses faster, the lead ion or the iodide ion? Why?